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most of the observers, consisting of a succession of scarlet-coloured prominences, united at the base by a continuous red band. With regard to this phenomenon, Mr. Airy saw the most magnificent display of a probable effect of it. Along the north horizon, to about 30° or 35° of altitude, the sky was illuminated with rosy-red light for a breadth of about 90° in azimuth. At this time, the sierra which he saw in the telescope was far more brilliant in colour than any of the detached prominences; and it suggests the only probable or satisfactory explanation of the light.

On the whole, we may congratulate the Society on the success which attended the greater number of the observing expeditions;—many doubtful circumstances have been cleared up; and with regard to those which remain still perplexed and mysterious, we have data for the guidance of future inquirers, which will probably help at some future time to elicit materials for a far more minute acquaintance with the constitution of the sun than we at present possess.

At one of our late evening meetings, an instance was afforded of the aid which the art of drawing affords to practical astronomy, by the exhibition of a series of six large coloured landscapes by Professor Piazzi Smyth. These were drawn during the solar eclipse of last July, on the island of Bue on the coast of Norway, just within the band of totality.

In this instance the weather was adverse to astronomical observation; but the vicissitudes of the atmospherical effect during the progress of the phenomenon are very strikingly shown in the views which were exhibited, not only in the foreground, but also on the distant snow-capped mountains; and the very singular variations of sky, from the commencement of obscuration, through the totality, to the eclipse passing off, were faithfully represented. In these views, the peculiar streams, as it were, of clouds descending towards the sun, the dense crimson of one portion, the brilliant yellow of another, and the lurid aspect of the deepest darkness, offer much matter for physical inquiry.

Papers read before the Society from February 1851 *to February* 1852.

1851.
Mar. 14. Observations of Faye's Comet. Prof. Bond.
Ephemeris of *Egeria*. M. G. Rümker.
Observations of *Victoria*, &c. Mr. Carrington.
Elements of *Egeria*, and Notice of *Saturn*. Sig. Secchi.
Observations of *Victoria*. Mr. Hartnup.
Observations of *Victoria*. Mr. Graham.
Elements of *Victoria*. Dr. Gould.

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Ephemeris of *Victoria*. M. Villarceau.
Graphical Solution of the Orbit of a Planet. M. Villarceau.
Notice of Lecture, Jan. 10, 1851. Sir J. Lubbock.
Observations of *Egeria*. Mr. Carrington.
Observations of *Metis*. Mr. Hartnup.
Ephemeris of *Egeria*. M. G. Rümker.
Observations of *Egeria*. M. C. Rümker.
On supposed Self-luminous Bodies. Mr. Jeans.
Azimuths on a Spheroid. Lieutenant Clarke.
On the Correction of the Altitude of the Pole Star. Mr. J. Riddle.
On the Parallax of α^1 and α^2 *Centauri*. Mr. Maclear.
On a Modification of the Quadrant. Mr. Hedgecock.
Observations of Small Planets. Mr. Hartnup.
Transits of Standard Stars. Rev. A. Weld.
Apr. 11. Note to *Monthly Notices*, Vol. ix. p. 184. Mr. Airy.
On Zodiacal Light. Mr. Lowe.
Note on his Drawing of *Saturn*. Rev. W. R. Dawes.
On the Correction of Lindenau's Elements of *Mars*. Mr. H. Breen.
On the Determination of the probable Stability of an Azimuthal Circle. Mr. Airy.
On the Elements of the Binary Star γ *Virginis*. Mr. Hind.
May 9. On the Vibration of a Free Pendulum in an Oval differing little from a Straight Line. Mr. Airy.
Elements and Ephemeris of Biela's Comet, 1852. Professor Santini.
Observations of *Metis*. Mr. Hartnup.
On the Use of the Gregorian Calendar for ascertaining New and Full Moon. Mr. De Morgan.
June 13. On the Discovery of *Irene*. Mr. Hind.
On a Solar Spot. Rev. A. Weld.
On the Nature of Solar Light. Mr. Nasmyth.
On the American Mode of Observing by the Galvanic Current. Mr. G. P. Bond.
Observations of *Irene*. Mr. Carrington.
Notice of Improvement in the Supports of Specula. Mr. Lassell.
Ephemeris of *Irene*. Mr. Pogson.
Observations of Faye's Comet and of *Irene*. Professor Challis.
Measurement of γ *Virginis*. Mr. Fletcher.
Occultation of Fixed Stars by *Jupiter*. Rev. W. R. Dawes.
Observations of *Irene* and *Astrea*. Mr. Hartnup.
Meridian Observations of *Irene*. Mr. Airy.
On M. Foucault's Pendulum Experiment. Mr. Drew.
Observations of *Jupiter's* Satellites. Mr. Moyes.
Observations of Minor Planets. Mr. Carrington.

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Observations and Ephemeris of *Irene, Astrea*, &c. M. Rümker.
Elements of *Irene*. MM. Vogel and G. Rümker.
Remarks on Dr. Galle's Observations of Dark Ring of *Saturn*. Rev. W. R. Dawes.
On the Observation of Solar Spots with large Telescopes. Rev. W. R. Dawes.
On the Determination of a Meridian Point. Rev. A. Weld.
Observations of *Irene*. M. Rümker.
On the Discovery of *Irene*. Mr. Hind.
On the Solar Eclipse, Feb. 1, 1851. Mr. Clarke.
Nov. 14. Observations of *Irene*. Mr. Carrington.
Elements of *Irene*. M. Fergola.
Elements of *Irene*. Mr. Carrington.
Observations of *Hebe*. Mr. Carrington.
Observations of *Irene*. The Astronomer Royal.
Observations on Foucault's Pendulum Experiment. M. Secchi.
Elements and Ephemeris of *Irene*. Mr. Pogson.
Circular, D'Arrest's Comet. Dr. Petersen.
Observations of *Irene* and *Hebe*. Mr. Hartnup.
Ephemeris of *Parthenope*. M. Luther.
Observations of *Irene*. Mr. Boreham.
Observations of *Irene*. M. Rümker.
On Reflecting Instruments. Professor C. P. Smyth.
Planetary Observations. M. Rümker.
Planetary and Cometary Observations. MM. C. and G. Rümker.
Notice of Discovery of *Eunomia*. Dr. Petersen.
Observations and Elements of *Eunomia*. Dr. Petersen.
Discovery of Brorsen's Comet. Dr. Petersen.
Discovery of D'Arrest's Second Comet. Dr. Petersen.
Elements of D'Arrest's Second Comet. M. Vogel.
Elliptic Elements of D'Arrest's Second Comet. Mr. Pogson.
Moon-culminations at Hamburgh. M. Rümker.
Observations of *Hebe*. M. Rümker.
Observations, &c., of *Eunomia*. M. Rümker.
Elements and Ephemeris of *Irene*. M. G. Rümker.
Observations of *Jupiter* and his Satellites. Rev. J. Slatter.
Elements and Ephemeris of *Parthenope*. M. Luther.
Observations of Planets and Comets. Professor Challis.
Observations of Planets and Comets. Mr. Carrington.
Ephemeris of *Egeria*. M. G. Rümker.
On the Orbit of γ *Virginis*. Mr. Fletcher.
On the Dark Ring of *Saturn*. Mr. Hartnup.
Planetary, &c., Observations. Mr. Hartnup.
Discovery of Satellites of *Uranus*. Mr. Lassell.

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On an Improvement on the Quadrant. Mr. Hedgecock.
On the Solar Eclipse, Jan. 31, 1851. Capt. King.
Occultations, &c., and on the rule for equal Altitudes. Capt. Shadwell.
Ephemeris of *Parthenope.* MM. Luther and Vogel.
On Discordance of observed Places of Stars with B.A.C. Mr. Maclear.
De la Determination des Orbites Elliptiques. M. Valz.
On Hind's Third Planet. M. Villarceau.
Elliptic Elements of D'Arrest's Comet. The Astronomer Royal.
On the Rings of *Saturn.* Mr. De la Rue.
Observations of *Saturn.* Mr. Lassell.
On the Rings of *Saturn.* Mr. Fletcher.
On the Solar Spots. Mr. Miller.
On the Solar Spots. Capt. Shea.
On the Solar Eclipse, July 28, 1851. Mr. Snow.
Ditto ditto Mr. Lassell.
Ditto ditto Mr. Stanistreet.
Ditto ditto Mr. Williams.
Ditto ditto Mr. Miller.
Ditto ditto Rev. T. Chevallier.
On the Satellites of *Uranus.* Mr. Lassell.
On the Solar Eclipse, July 28, 1851. Rev. W. R. Dawes.
Dec. 12. On Luminous Bodies seen in Daylight. Rev. W. Read.
Cosmical Speculations. Mr. Dempster.
Observations. Mr. Boreham.
Observations. Mr. Hartnup.
Ephemeris of Brorsen's Comet, &c. M. Rümker.
Circular, Brorsen's Comet. Dr. Petersen.
Ephemeris of D'Arrest's Comet. Mr. Pogson.
Occultations of Stars. Mr. Snow.
Third List of Stars in B.A.C. Corrections in R.A. Lord Wrottesley.
On the Satellites of *Uranus.* Mr. Lassell.
Observations of *Saturn*, &c. Rev. W. R. Dawes.
Note on Mr. Slatter's Paper, No. 188. Rev. W. R. Dawes.
Solar Eclipse. Measurement of Solar Spots. Mr. Pogson.
Solar Eclipse, July 28, 1851. Mr. Hind.
Ditto ditto Professor C. P. Smyth.
Ditto ditto The Astronomer Royal.
Ditto ditto Mr. Dunkin.
Ditto ditto Mr. Humphreys.
Ditto ditto Capt. Biddulph.
Ditto ditto Capt. Blackwood.
Ditto ditto Mr. Gray.
Ditto ditto Lieut. Krag.
Ditto ditto Mr. Jackson.

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Solar Eclipse, July 28, 1851. Colonel Silverstolpe.
Ditto ditto Mr. Stephenson.
Ditto ditto Lieut. Pettersson.
Ditto ditto Mr. Young.

On the Adjustment of a Transit Circle and an Equatoreal. Mr. Drew.

Observations of Solar Spots. Mr. Turnbull.

1852.
Jan. 9. Notice of Rümker's Observations of De Gasparis' supposed Planet. Professor Challis.

Observations of *Parthenope, Pallas,* and *Victoria.* Mr. Carrington.

On De Gasparis' supposed Discovery of a new Planet. Dr. Petersen.

On the Markree Ecliptic Catalogue. Mr. Graham.

List of Public Institutions and of Persons who have contributed to the Society's Library, &c. since the last Anniversary.

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Royal Society of Edinburgh.
Royal Irish Academy.
Royal Geographical Society.
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